

ATG Met 1	AGC Ser	AAG Lys	GGC Gly	GAG Glu 5	GAA Glu	CTG Leu	TTC Phe	ACT Thr	GGC Gly 10	GTG Val	GTC Val	CCA Pro	ATT Ile	CTC Leu 15	GTG Val
GAA Glu	CTG Leu	GAT Asp	GGC Gly 20	GAT Asp	GTG Val	AAT Asn	GGG Gly	CAC His 25	AAA Lys	TTT Phe	TCT Ser	GTC Val	AGC Ser 30	GGA Gly	GAG Glu
GGT Gly	GAA Glu	GGT Gly 35	GAT Asp	GCC Ala	ACA Thr	TAC Tyr	GGA Gly 40	AAG Lys	CTC Leu	ACC Thr	CTG Leu	AAA Lys 45	TTC Phe	ATC Ile	TGC Cys
ACC Thr	ACT Thr 50	GGA Gly	AAG Lys	CTC Leu	CCT Pro	GTG Val 55	CCA Pro	TGG Trp	CCA Pro	ACA Thr	CTG Leu 60	GTC Val	ACT Thr	ACC Thr	TTC Phe
ACC Thr 65	TAT Tyr	GGC Gly	GTG Val	CAG Gln 70	TGC Cys	TTT Phe	TCC Ser	AGA Arg	TAC Tyr	CCA Pro 75	GAC Asp	CAT His	ATG Met	AAG Lys	CAG Gln 80
CAT His	GAC Asp	TTT Phe	TTC Phe	AAG Lys 85	AGC Ser	GCC Ala	ATG Met	CCC Pro	GAG Glu 90	GGC Gly	TAT Tyr	GTG Val	CAG Gln	GAG Glu 95	AGA Arg
ACC Thr	ATC Ile	TTT Phe	TTC Phe 100	AAA Lys	GAT Asp	GAC Asp	GGG Gly	AAC Asn 105	TAC Tyr	AAG Lys	ACC Thr	CGC Arg	GCT Ala 110	GAA Glu	GTC Val
AAG Lys	TTC Phe	GAA Glu 115	GGT Gly	GAC Asp	ACC Thr	CTG Leu	GTT Val 120	AAT Asn	AGA Arg	ATC Ile	GAG Glu	TTG Leu 125	AAG Lys	GGC Gly	ATT Ile
GAC Asp	TTT Phe 130	AAG Lys	GAA Glu	GAT Asp	GGA Gly	AAC Asn 135	ATT Ile	CTC Leu	GGC Gly	CAC His	AAG Lys 140	CTG Leu	GAA Glu	TAC Tyr	AAC Asn
TAT Tyr 145	AAC Asn	TCC Ser	CAC His	AAT Asn	GTG Val 150	TAC Tyr	ATC Ile	ATG Met	GCC Ala	GAC Asp 155	AAG Lys	CAA Gln	AAG Lys	AAT Asn	GGC Gly 160
ATC Ile	AAG Lys	GTC Val	AAC Asn	TTC Phe 165	AAG Lys	ATC Ile	AGA Arg	CAC His	AAC Asn 170	ATT Ile	GAG Glu	GAT Asp	GGA Gly	TCC Ser 175	GTG Val
CAG Gln	CTG Leu	GCC Ala	GAC Asp 180	CAT His	TAT Tyr	CAA Gln	CAG Gln	AAC Asn 185	ACT Thr	CCA Pro	ATC Ile	GGC Gly	GAC Asp 190	GGC Gly	CCT Pro
GTG Val	CTC Leu	CTC Leu 195	CCA Pro	GAC Asp	AAC Asn	CAT His	TAC Tyr 200	CTG Leu	TCC Ser	ACC Thr	CAG Gln	TCT Ser 205	GCC Ala	CTG Leu	TCT Ser
AAA Lys	GAT Asp 210	CCC Pro	AAC Asn	GAA Glu	AAG Lys	AGA Arg 215	GAC Asp	CAC His	ATG Met	GTC Val	CTG Leu 220	CTG Leu	GAG Glu	TTT Phe	GTG Val
ACC Thr 225	GCT Ala	GCT Ala	GGG Gly	ATC Ile	ACA Thr 230	CAT His	GGC Gly	ATG Met	GAC Asp	GAG Glu 235	CTG Leu	TAC Tyr	AAG Lys	TAA *	

(SEQ ID NOs:1, 2)

FIG. 1

ATG Met 1	AGT Ser	AAA Lys	GGA Gly 5	GAA Glu	GAA Glu	CTT Leu	TTC Phe	ACT Thr	GGA Gly 10	GTT Val	GTC Val	CCA Pro	ATT Ile	CTT Leu 15	GTT Val	48
GAA Glu	TTA Leu	GAT Asp	GGT Gly 20	GAT Asp	GTT Val	AAT Asn	GGG Gly	CAC His 25	AAA Lys	TTT Phe	TCT Ser	GTC Val	AGT Ser 30	GGA Gly	GAG Glu	96
GGT Gly	GAA Glu	GGT Gly 35	GAT Asp	GCA Ala	ACA Thr	TAC Tyr	GGA Gly 40	AAA Lys	CTT Leu	ACC Thr	CTT Leu	AAA Lys 45	TTT Phe	ATT Ile	TGC Cys	144
ACT Thr 50	ACT Thr	GGA Gly	AAA Lys	CTA Leu	CCT Pro	GTT Val 55	CCA Pro	TGG Trp	CCA Pro	ACA Thr	CTT Leu 60	GTC Val	ACT Thr	ACT Thr	TTC Phe	192
TCT Ser 65	TAT Tyr	GGT Gly	GTT Val	CAA Gln 70	TGC Cys	TTT Phe	TCA Ser	AGA Arg	TAC Tyr	CCA Pro 75	GAT Asp	CAT His	ATG Met	AAA Lys	CAG Gln 80	240
CAT His	GAC Asp	TTT Phe	TTC Phe	AAG Lys 85	AGT Ser	GCC Ala	ATG Met	CCC Pro	GAA Glu 90	GGT Gly	TAT Tyr	GTA Val	CAG Gln	GAA Glu 95	AGA Arg	288
ACT Thr	ATA Ile	TTT Phe	TTC Phe 100	AAA Lys	GAT Asp	GAC Asp	GGG Gly	AAC Asn 105	TAC Tyr	AAG Lys	ACA Thr	CGT Arg	GCT Ala 110	GAA Glu	GTC Val	336
AAG Lys	TTT Phe	GAA Glu 115	GGT Gly	GAT Asp	ACC Thr	CTT Leu	GTT Val 120	AAT Asn	AGA Arg	ATC Ile	GAG Glu	TTA Leu 125	AAA Lys	GGT Gly	ATT Ile	384
GAT Asp 130	TTT Phe	AAA Lys	GAA Glu	GAT Asp	GGA Gly	AAC Asn 135	ATT Ile	CTT Leu	GGA Gly	CAC His	AAA Lys 140	TTG Leu	GAA Glu	TAC Tyr	AAC Asn	432
TAT Tyr 145	AAC Asn	TCA Ser	CAC His	AAT Asn	GTA Val 150	TAC Tyr	ATC Ile	ATG Met	GCA Ala	GAC Asp 155	AAA Lys	CAA Gln	AAG Lys	AAT Asn	GGA Gly 160	480
ATC Ile	AAA Lys	GTT Val	AAC Asn	TTC Phe 165	AAA Lys	ATT Ile	AGA Arg	CAC His	AAC Asn 170	ATT Ile	GAA Glu	GAT Asp	GGA Gly	AGC Ser 175	GTT Val	528
CAA Gln	CTA Leu	GCA Ala	GAC Asp 180	CAT His	TAT Tyr	CAA Gln	CAA Gln	AAT Asn 185	ACT Thr	CCA Pro	ATT Ile	GGC Gly	GAT Asp 190	GGC Gly	CCT Pro	576
GTC Val	CTT Leu	TTA Leu 195	CCA Pro	GAC Asp	AAC Asn	CAT His	TAC Tyr 200	CTG Leu	TCC Ser	ACA Thr	CAA Gln	TCT Ser 205	GCC Ala	CTT Leu	TCG Ser	624
AAA Lys 210	GAT Asp	CCC Pro	AAC Asn	GAA Glu	AAG Lys	AGA Arg 215	GAC Asp	CAC His	ATG Met	GTC Val	CTT Leu 220	CTT Leu	GAG Glu	TTT Phe	GTA Val	672
ACA Thr 225	GCT Ala	GCT Ala	GGG Gly	ATT Ile	ACA Thr 230	CAT His	GGC Gly	ATG Met	GAT Asp	GAA Glu 235	CTA Leu	TAC Tyr	AAA Lys			714
TAA																717

(SEQ ID NOs:3, 4)

FIG.2

Met	Ser	Lys	Gly	Glu	Glu	Leu	Phe	Thr	Gly	Val	Val	Pro	Ile	Leu	Val				
1				5					10					15					
Glu	Leu	Asp	Gly	Asp	Val	Asn	Gly	His	Lys	Phe	Ser	Val	Ser	Gly	Glu				
			20					25					30						
Gly	Glu	Gly	Asp	Ala	Thr	Tyr	Gly	Lys	Leu	Thr	Leu	Lys	Phe	Ile	Cys				
		35					40					45							
Thr	Thr	Gly	Lys	Leu	Pro	Val	Pro	Trp	Pro	Thr	Leu	Val	Thr	Thr	Cys				
	50					55					60								
Ala	Tyr	Gly	Val	Gln	Cys	Phe	Ser	Arg	Tyr	Pro	Asp	His	Met	Lys	Gln				
65					70					75					80				
His	Asp	Phe	Phe	Lys	Ser	Ala	Met	Pro	Glu	Gly	Tyr	Val	Gln	Glu	Arg				
				85					90					95					
Thr	Ile	Phe	Phe	Lys	Asp	Asp	Gly	Asn	Tyr	Lys	Thr	Arg	Ala	Glu	Val				
			100					105					110						
Lys	Phe	Glu	Gly	Asp	Thr	Leu	Val	Asn	Arg	Ile	Glu	Leu	Lys	Gly	Ile				
		115					120					125							
Asp	Phe	Lys	Glu	Asp	Gly	Asn	Ile	Leu	Gly	His	Lys	Leu	Glu	Tyr	Asn				
	130					135					140								
Tyr	Asn	Ser	His	Asn	Val	Tyr	Ile	Met	Ala	Asp	Lys	Gln	Lys	Asn	Gly				
145				150						155					160				
Ile	Lys	Val	Asn	Phe	Lys	Ile	Arg	His	Asn	Ile	Glu	Asp	Gly	Ser	Val				
				165				170						175					
Gln	Leu	Ala	Asp	His	Tyr	Gln	Gln	Asn	Thr	Pro	Ile	Gly	Asp	Gly	Pro				
			180					185					190						
Val	Leu	Leu	Pro	Asp	Asn	His	Tyr	Leu	Ser	Thr	Gln	Ser	Ala	Leu	Ser				
		195					200					205							
Lys	Asp	Pro	Asn	Glu	Lys	Arg	Asp	His	Met	Val	Leu	Leu	Glu	Phe	Val				
	210					215					220								
Thr	Ala	Ala	Gly	Ile	Thr	His	Gly	Met	Asp	Glu	Leu	Tyr	Lys						
225					230					235									

(SEQ ID NO:5)

**FIG.3**

**FIG.4**